


www.claypaky.it

ALEDA WASH K5 **ALEDA WASH K10** **ALEDA WASH K20**

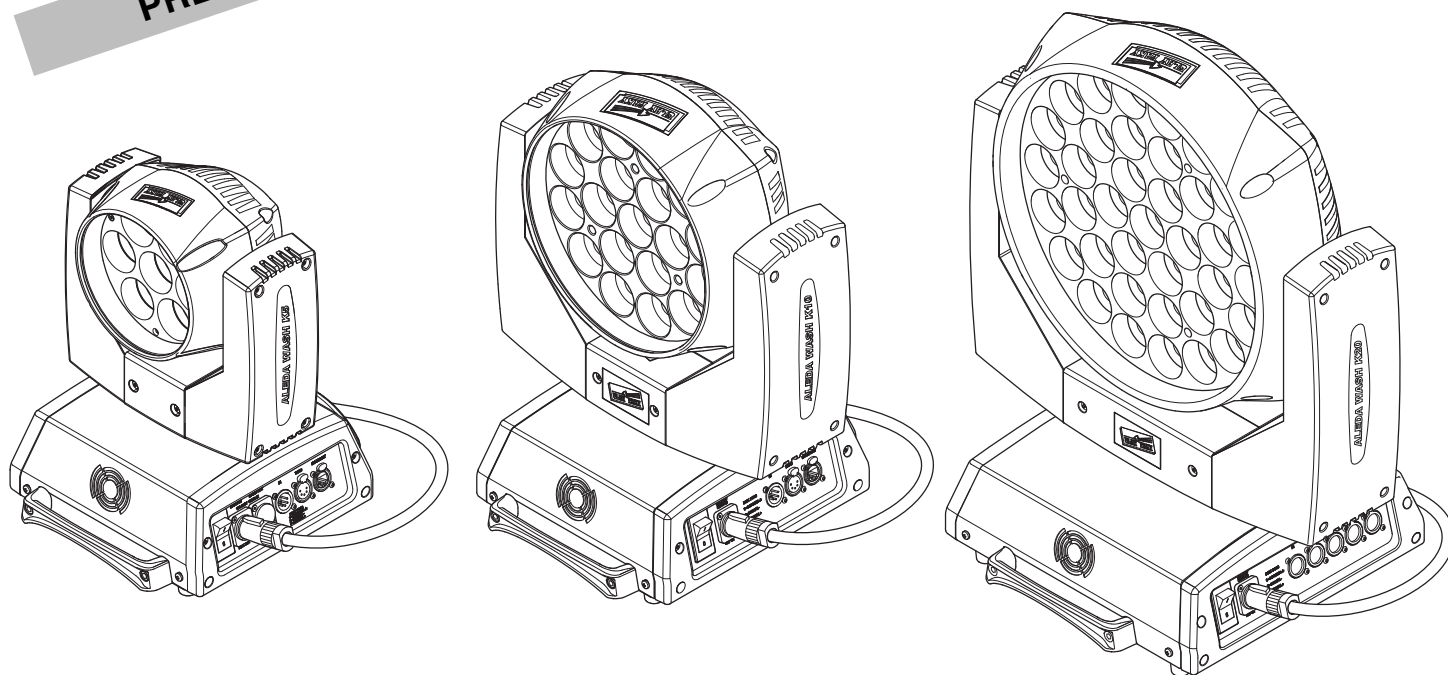
C61401

C61405

C61410

INSTRUCTION MANUAL

PRELIMINARY



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Congratulations on choosing a Clay Paky product!

We thank you for your custom.

Please note that this product, as all the others in the rich Clay Paky range, has been designed and made with total quality to ensure excellent performance and best meet your expectations and requirements.

Carefully read this instruction manual in its entirety and keep it safe for future reference. It is essential to know the information and comply with the instructions given in this manual to ensure the fitting is installed, used and serviced correctly and safely.

CLAY PAKY S.p.A. disclaims all liability for damage to the fitting or to other property or persons deriving from installation, use and maintenance that have not been carried out in conformity with this instruction manual, which must always accompany the fitting.

CLAY PAKY S.p.A. reserves the right to modify the characteristics stated in this instruction manual at any time and without prior notice.

SAFETY INFORMATION

• Installation

Make sure all parts for fixing the projector are in a good state of repair.

Make sure the point of anchorage is stable before positioning the projector.

The safety chain must be properly hooked onto the fitting and secured to the framework, so that, if the primary support system fails, the fitting falls as little as possible.

If the safety chain gets used, it needs to be replaced with a genuine spare.

• Minimum distance of illuminated objects

The projector needs to be positioned so that the objects hit by the beam of light are at least 0.20 metres (8") from the lens of the projector.

• Minimum distance from flammable materials

The projector must be positioned so that any flammable materials are at least 0.20 metres (8") from every point on the surface of the fitting.

• Mounting surfaces

It is permissible to mount the fitting on normally flammable surfaces.

• Maximum ambient temperature

Do not operate the fixture if the ambient temperature (T_a) exceeds 40° C (104° F).

• IP20 protection rating

The fitting is protected against penetration by solid bodies of over 12mm (0.47") in diameter (first digit 2), but not against dripping water, rain, splashes or jets of water (second digit 0).

• Protection against electrical shock

Connection must be made to a power supply system fitted with efficient earthing (**Class I** appliance according to standard EN 60598-1).

It is, moreover, recommended to protect the supply lines of the projectors from indirect contact and/or shorting to earth by using appropriately sized residual current devices.

• Connection to mains supply

Connection to the electricity mains must be carried out by a qualified electrical installer.

Check that the mains frequency and voltage correspond to those for which the projector is designed as given on the electrical data label.

This label also gives the input power to which you need to refer to evaluate the maximum number of fittings to connect to the electricity line, in order to avoid overloading.

• Temperature of the external surface


The maximum temperature that can be reached on the external surface of the fitting, in a thermally steady state, is 90°C (194°F).

• Maintenance

Before starting any maintenance work or cleaning the projector, cut off power from the mains supply.

• Battery

This product contains a rechargeable lead-acid battery. To preserve the environment, please dispose the battery at the end of its life according to the regulation in force. Instructions on how to remove the battery from the product are available on www.claypaky.it

LED  0.2m



t_a 40°C

IP20



t_c 90°C



The products referred to in this manual conform to the European Community Directives to which they are subject:

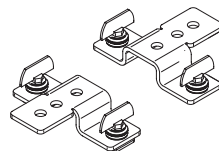
- Low Voltage 2006/95/CE
- Electromagnetic Compatibility 2004/108/CE

UNPACKING AND PREPARATION

1



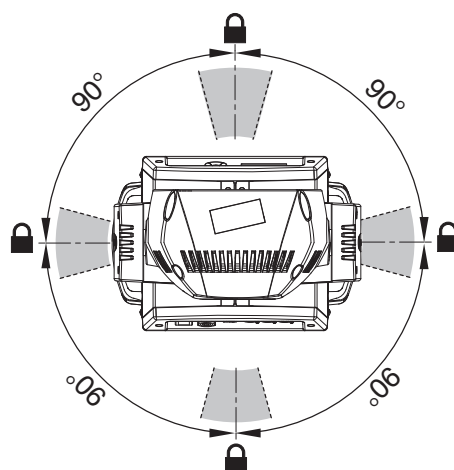
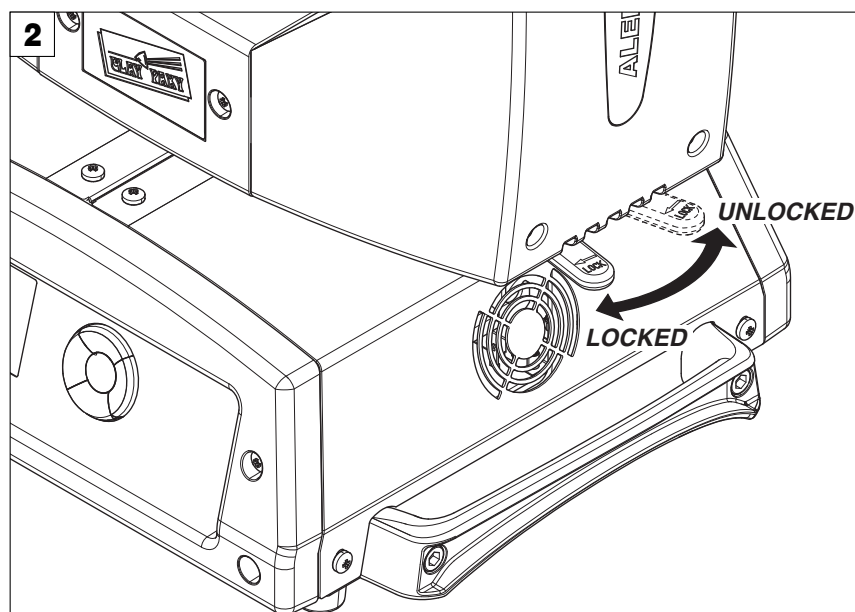
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2 x 183102/802

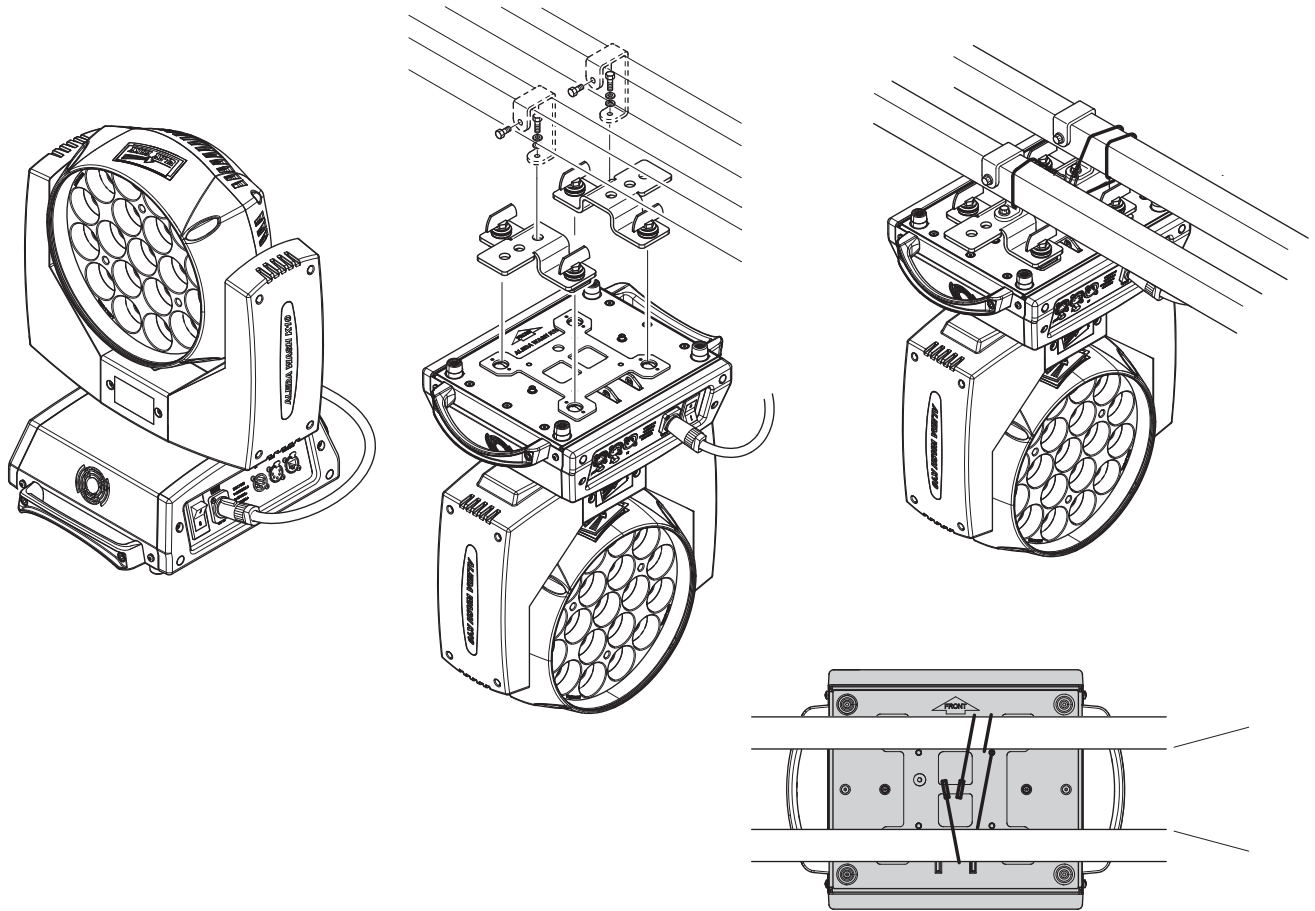
Packing contents - Fig. 1

2



PAN Mechanism Lock and Release (every 90°) - Fig. 2

4

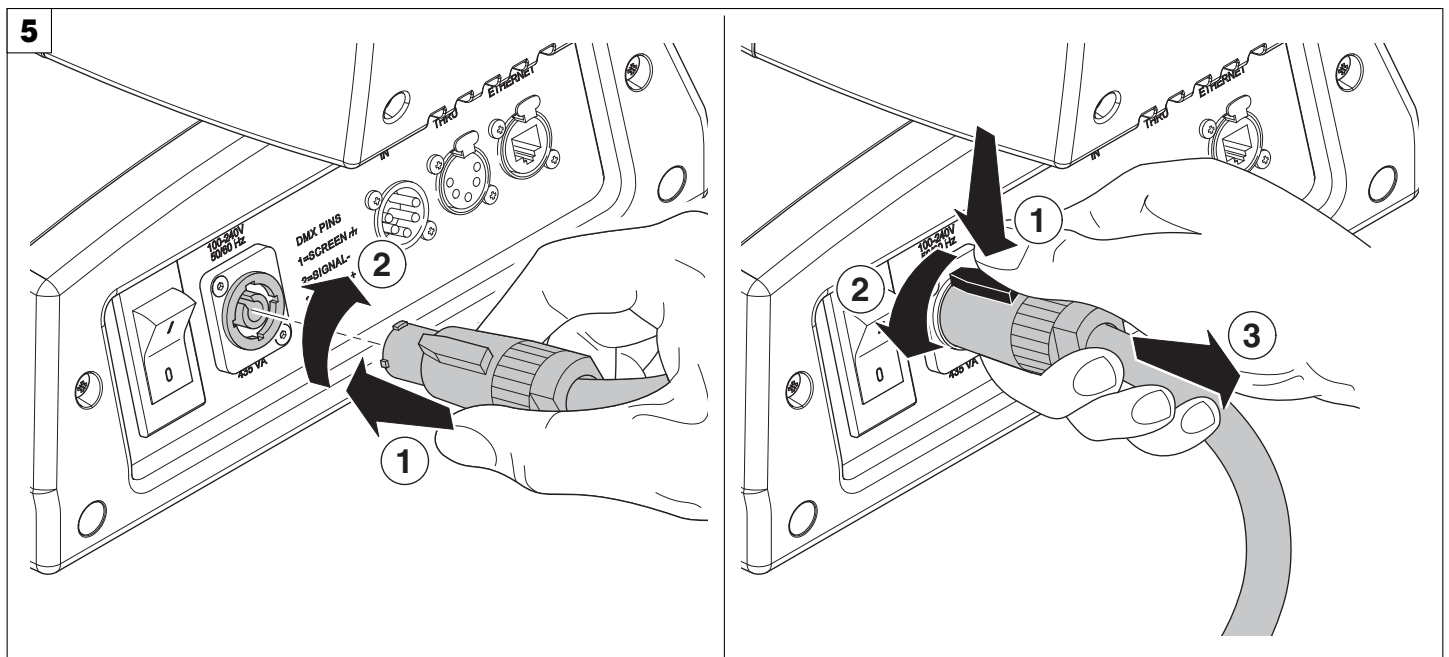


Installing the projector - Fig. 4

The projector can be installed on the floor resting on special rubber feet, on a truss or on the ceiling or wall.

WARNING: with the exception of when the projector is positioned on the floor, the safety cable must be fitted. (Cod. 105041/003 available on request). This must be securely fixed to the support structure of the projector and then connected to the fixing point at the centre of the base.

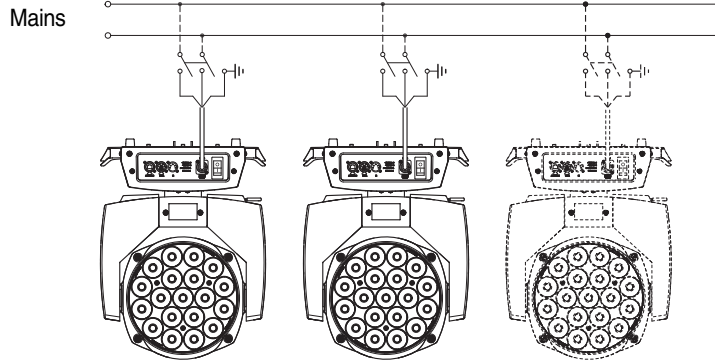
5



Connecting and disconnecting power cable - Fig. 5

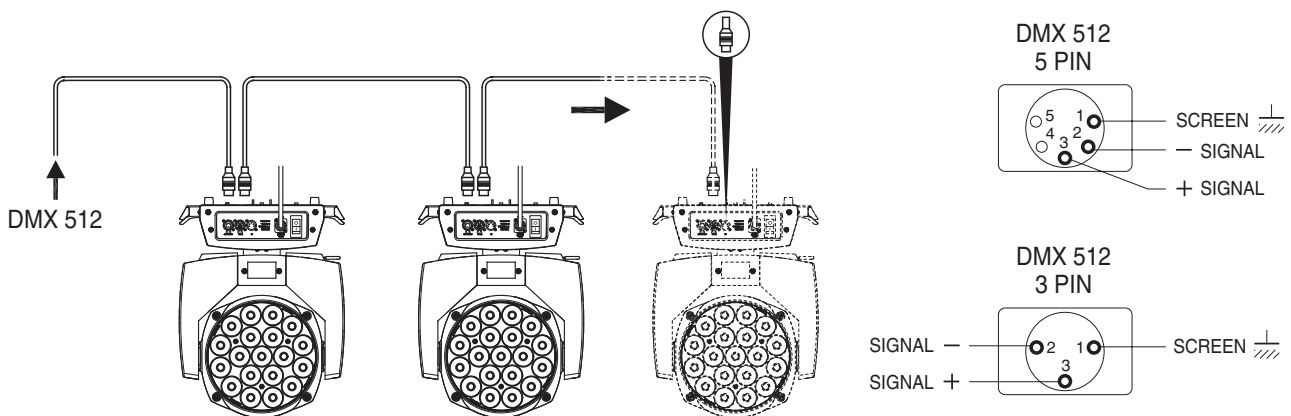
CONTROL PANEL

6



Connecting to the mains supply - Fig. 6

7

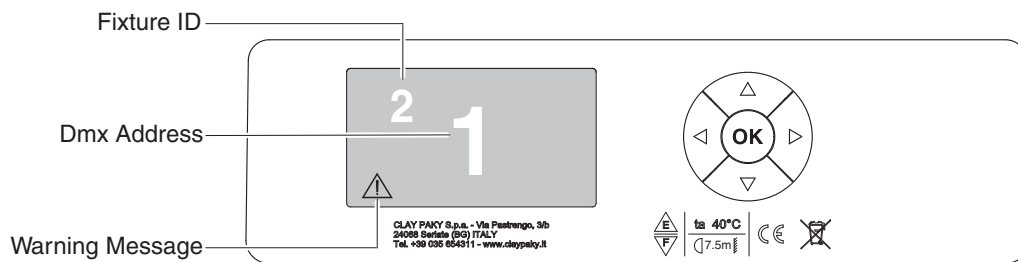


Connecting to the control signal line (DMX) - Fig. 7

Use a cable conforming to specifications EIA RS-485: 2-pole twisted, shielded, 120Ohm characteristic impedance, 22-24 AWG, low capacity. Do not use microphone cable or other cable with characteristics differing from those specified. The end connections must be made using XLR type 3 or 5-pin male/female connectors. A terminating plug must be inserted into the last projector with a resistance of 120Ohm (minimum 1/4 W) between terminals 2 and 3.

IMPORTANT: The wires must not make contact with each other or with the metal casing of the connectors. The casing itself must be connected to the shield braid and to pin 1 of the connectors.

8



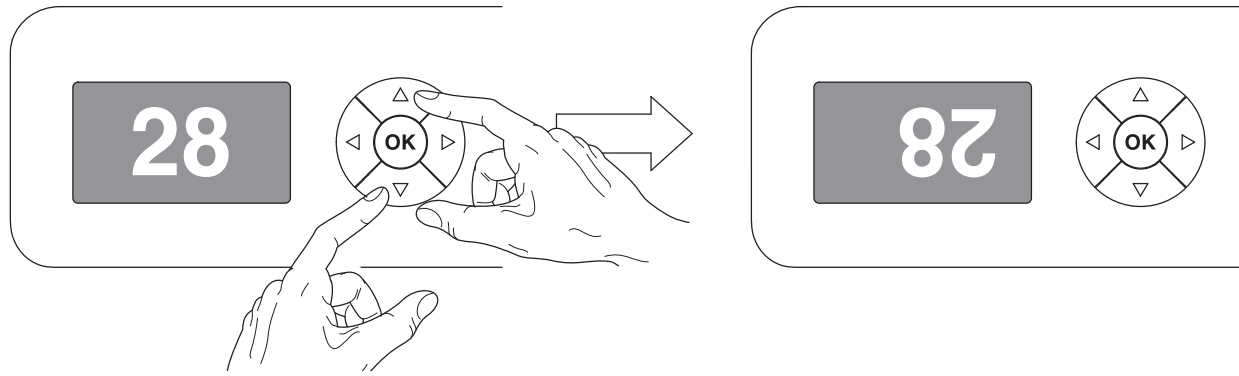
Switching on the projector - Fig. 8

Press the switch. The projector starts resetting the effects. At the same time, the following information scrolls on the display:

| | | | | |
|--|-----------------------------|---|--|--|
| | Model A.leda Wash | Firmware Version X.X.X Date - Hour | xxx (Fixture ID) Dmx Address xxx | System errors E: W: |
|--|-----------------------------|---|--|--|

On conclusion of resetting in case of absence of the dmx signal, Pan and Tilt move to the "Home" position (Pan 50% - Tilt 50%). The control panel (Fig. 8) has a display and buttons for the complete programming and management of the projector menu. The display can be in one of two conditions: rest status and setting status. When it is in the rest status, the display shows the projector's DMX address and the Fixture ID address (if set).

During menu setting status, after a wait time (about 30 seconds) without any key having been pressed, the display automatically returns to rest status. It should be noted that when this condition occurs, any possible value that has been modified but not yet confirmed with the key will be cancelled.



Reversal of the display - Fig. 9

To activate this function, press UP ▲ and DOWN ▼ keys simultaneously while the display is in the rest mode. This status will be memorised and maintained even for the next time it will be switched on. To return to the initial state, repeat the operation all over again.

Setting the projector starting address

On each projector, the starting address must be set for the control signal (addresses from 1 to 512).

The address can also be set with the projector switched off.

Setting the address: see pag. 8.

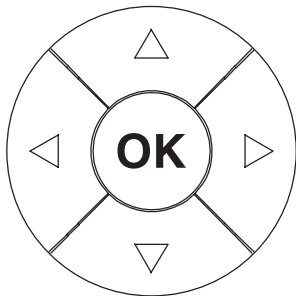
Setting the projector Fixture ID

On each projector, the Fixture ID address must be set for an easy identification of the fixtures in an installation (ID from 1 to 255).

The Fixture ID address can be set with the projector switched off.

Setting the Fixture ID: see pag. 8.

Functions of the buttons - Using the menu



Confirms the displayed value, or activates the displayed function, or enters the successive menu.



DOWN

Decreases the value displayed (with auto-repetitions) or passes to the next item in the menu.



UP

Increases the value displayed (with auto-repetitions) or passes to the previous item in a menu.



LEFT

Return to the top level.



RIGHT

Commute from units, tens, hundreds, in the "Address", "Fixture ID" and "Calibration" menu.

USING THE MENU:

- 1) Press **OK** once – "Main Menu" appears on the display.
- 2) Use the UP ▲ and DOWN ▼ keys to select the menu to be used:
 - Setup (Setup Menu): To set the setting options.
 - Option (Option Menu): To set the operating options
 - Informations (Informations Menu): To read the counters, software version and other information.
 - Manual Control (Manual control Menu): To trigger the test and manual control functions.
 - Test (Test Menu): To check the proper functioning of effects
 - Advanced (Advanced Menu): Access to the "Advanced menu" is recommended for a trained technical personnel.

To enable the "Advanced" see pag.13
- 3) Press **OK** to display the first item in the selected menu.
- 4) Use the UP ▲ and DOWN ▼ keys to select the MENU items.

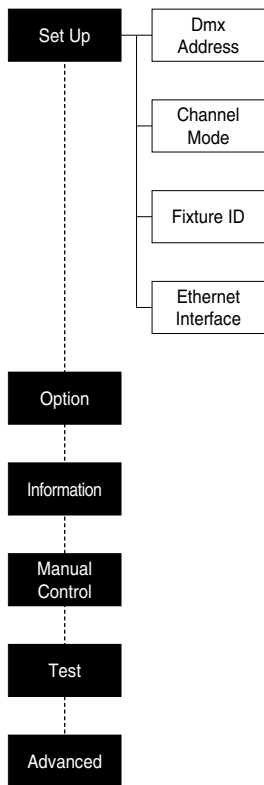
Setting addresses and options with the projector disconnected

The projector's DMX address, as well as other possible operating options, can also be set when the appliance is disconnected from the electricity supply. All that is needed is to press **OK** to momentarily activate the display and thus access the settings. Once the required operations have been carried out, the display will switch off again after a wait time of 30 seconds.

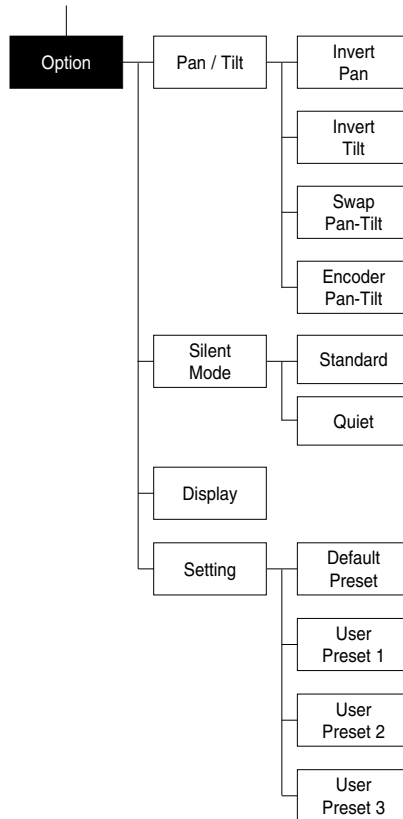
MENU SETTING

MAIN MENU

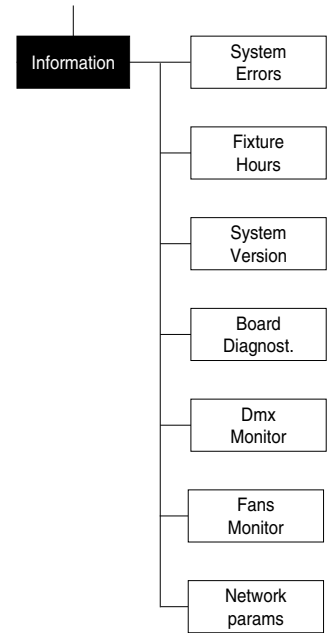
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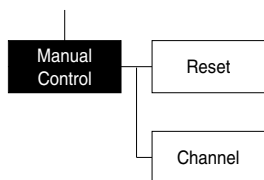
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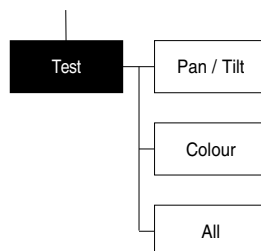
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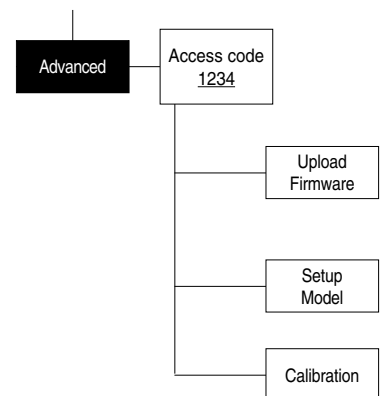
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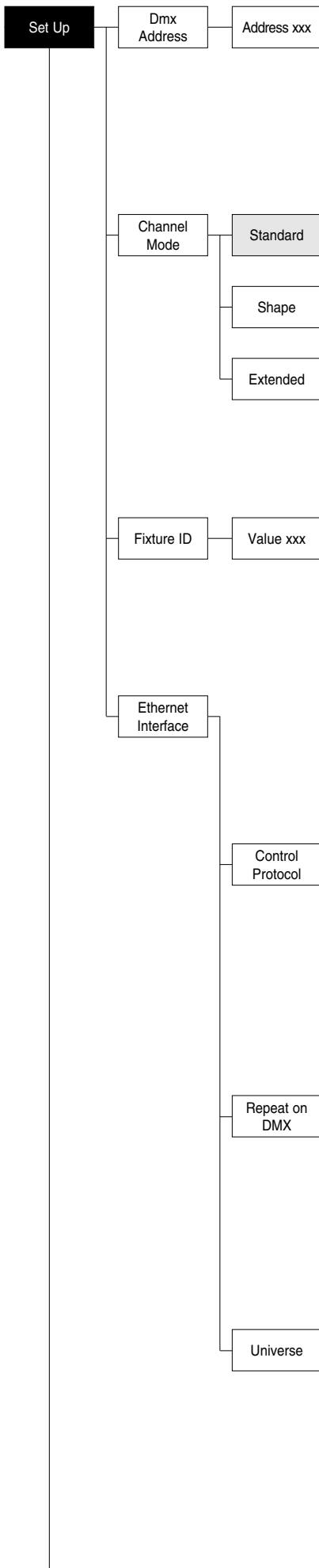
5



6



NOTE: On grey the default options



SET UP MENU

DMX ADDRESS

NOTE: without the DMX signal the Address (XXX) flashing

Allows you to select the DMX ADDRESS.

- 1) Press **OK** - the current DMX Address appear on the display.
- 2) Use the UP **▲** and DOWN **▼**, RIGHT **▶** keys to plan the DMX Address.
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep current settings.

CHANNEL MODE

Allows you to select a channel arrangement from the two available.

- 1) Press **OK** - the current settings appear on the display (Standard or Vector).
- 2) Use the UP **▲** and DOWN **▼** keys to select one of the following settings:
 - **Standard**
 - **Shape**
 - **Extended**
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep current settings.

FIXTURE ID

Allows you to select the FIXTURE ID.

- 1) Press **OK** - the current Fixture ID appear on the display.
- 2) Use the UP **▲**, DOWN **▼**, RIGHT **▶** keys to plan the Fixture ID.
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep current settings.

ETHERNET INTERFACE

It lets you set the Ethernet settings to be attributed to the projector.

- 1) Premere **OK**.
- 2) Use the UP **▲** and DOWN **▼** keys to select the "Ethernet Interface" options to set:

Control Protocol

It lets you select the "Control Protocol" Art-net to assign according to the control unit used:

- 1) Press **OK** the current setting appears on the display.
- 2) Use the UP **▲** and DOWN **▼** keys to select one of the following settings:
 - **Disabled**
 - **Art-net on IP 2**
 - **Art-net on IP 10**
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep the current setting.

Repeat on DMX

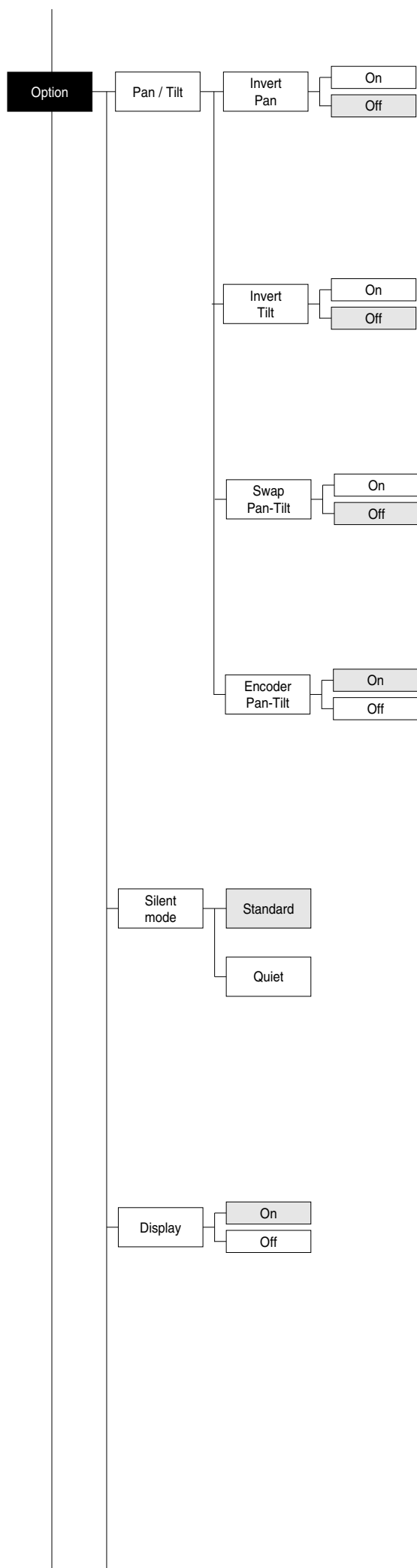
It lets you enable the transmission of the Ethernet protocol by DMX signal to all the connected projectors.

- 1) Press **OK** the current setting appears on the display.
- 2) Use the UP **▲** and DOWN **▼** keys to select one of the following settings:
 - **Disabled:** DMX transmission disabled.
 - **Enabled on primary:** DMX transmission enabled.
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep the current setting.

Universe

It lets you assign the "Universe" number to be assigned to a series of projectors.

- 1) Press **OK** – the current Universe address appears on the display.
- 2) Use the UP **▲**, DOWN **▼**, RIGHT **▶** keys to set the Universe address.
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep the current setting.



OPTIONS MENU

PAN / TILT

Invert pan

Used for reversing Pan movement.

- 1) Press **OK** - the current settings appear on the display (On or Off).
- 2) Use the UP **▲** and DOWN **▼** keys to enable (On) or disable (Off) PAN inversion.
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep current settings.

Invert tilt

Used for reversing tilt movement.

- 1) Press **OK** - the current settings appear on the display (On or Off).
- 2) Use the UP **▲** and DOWN **▼** keys to enable (On) or disable (Off) Tilt inversion.
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep current settings.

Swap Pan-Tilt

Used for swapping Pan and Tilt channels (as well as Pan fine and Tilt fine).

- 1) Press **OK** - the current settings appear on the display (On or Off).
- 2) Use the UP **▲** and DOWN **▼** keys to enable (On) or disable (Off) Pan and Tilt channel swap.
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep current settings.

Encoder Pan-Tilt

Used for enabling the Pan / Tilt encoders.

- 1) Press **OK** - the current settings appear on the display (On or Off).
- 2) Use the UP **▲** and DOWN **▼** keys to enable (On) or disable (Off) Pan / Tilt encoders.
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep current settings.

SILENT MODE

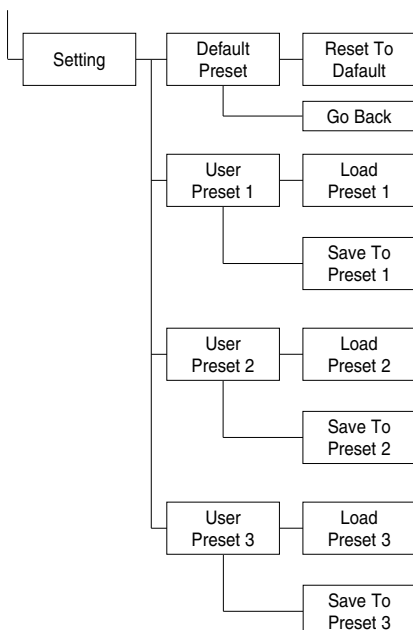
It lets you select the "Silent Mode" from the two available.

- 1) Press **OK** the current setting appears on the display.
- 2) Use the UP **▲** and DOWN **▼** keys to select one of the following settings:
Standard: Maximum speed and consequently maximum effects noise level.
Quiet: reduces the speed of some effects, thereby reducing their noise level.
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep the current setting.

DISPLAY

Used for automatically reduce brightness on the display after about 30 seconds in idle.

- 1) Press **OK** - the current settings appear on the display (On or Off).
- 2) Use the UP **▲** and DOWN **▼** keys to enable (On) or disable (Off) the decreasing of display brightness.
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep current settings.



SETTING

Used to save 3 different settings of the items in the options menu and relative submenus.

- 1) Press **OK** - "Default preset" appears on the display.
- 2) Use the UP **▲** and DOWN **▼** keys to select one of the following configurations:
 - Default preset (*)
 - User preset 1
 - User preset 2
 - User Preset 3
- 3) Press **OK** - "Load preset X" appears on the display.
- 4) Use the UP **▲** and DOWN **▼** keys to select:
 - Load preset X to recall a previously stored configuration.
 - Save to preset X to store the current configuration.
 a confirmation message (Are you sure?) appears on the display.
- 5) Select YES to confirm the selection or NO to keep the current setting and return to the next higher level.

(*) DEFAULT PRESET

Used for restoring default values on all options menu items and relevant submenus.

- 1) Press **OK**, a confirmation message (Are you sure?) appears on the display.
- 2) Select YES to confirm the selection or NO to keep current setting.

| OPTION | DEFAULT |
|------------------|---------|
| Invert Pan | Off |
| Invert Tilt | Off |
| Swap Pan-Tilt | Off |
| Encoder Pan-Tilt | On |
| Display | On |

INFORMATION MENU

SYSTEM ERRORS

Shows a list of warnings and messages relevant to errors occurred since the fixtures switching-on.

- 1) Pressing **OK** you are allowed to reset the SYSTEM ERRORS list.
A confirmation message (Are you sure you want to clear error list ?) appears on the display.
- 2) Select YES to reset the list or NO to go back.

FIXTURE HOURS

Used for displaying projector operating hours (total and partial).

- 1) Press **OK** - Hours total and partial appears on the display.

Total counter

Counts the number of projector working life hours (from manufacture to date).

Partial counter

Counts the number of partial projector working life hours since the last reset to date.

- 2) Press **OK** to reset partial projector working hours a confirmation message (Are you sure?) appears on the display.
- 3) Select YES to reset partial projectors counter or NO to keep the current setting and return to the top menu level.

SYSTEM VERSION

Used for displaying the software and hardware version of each board installed in the projector.

CPU brd (CPU board)

0: PT-3f (Scheda Pan / Tilt)

1: Ld - Kxx (Scheda LED)

Information

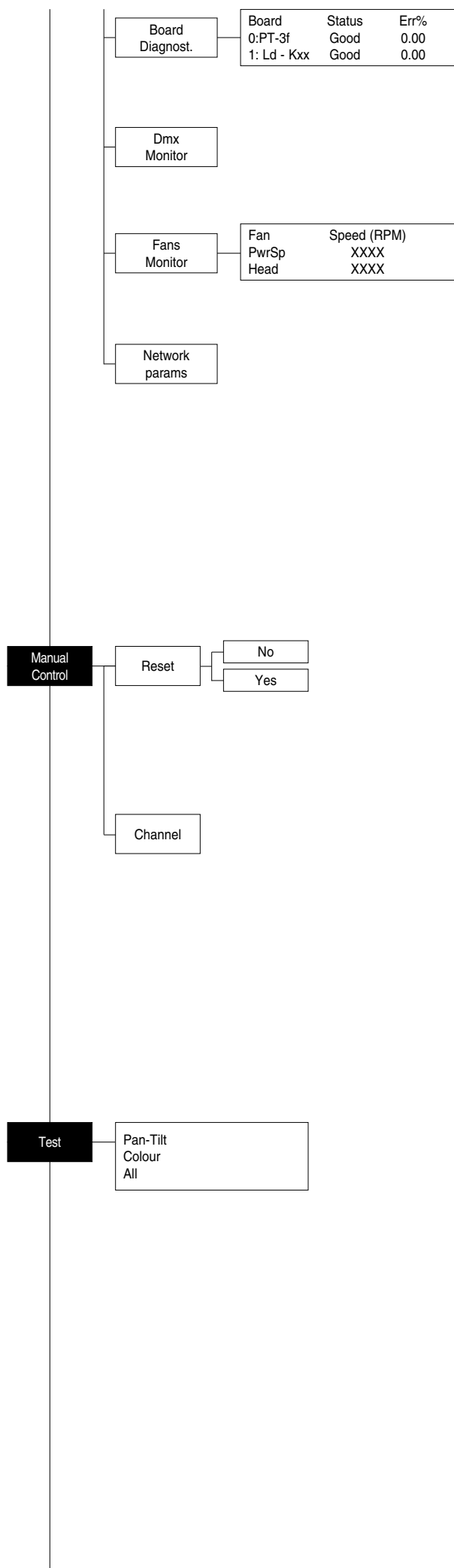
System Errors

Fixture Hours

| | |
|----------|-----|
| Total | XXX |
| Partial | XXX |
| Reset... | |

System Version

| | | |
|-------------|--------|--------|
| Board | Revis. | Hw.rv. |
| CPU brd | x.x.x | x.x |
| com.dev | x.x | |
| 0: PT-3f | x.x | x.x |
| 1: Ld - Kxx | x.x | x.x |



BOARD DIAGNOSTIC

Used for displaying the status error of each board installed in the projector:

0: PT-3f (Scheda Pan / Tilt)

1: Ld - Kxx (Scheda LED)

DMX MONITOR

Used for displaying the projector DMX channel level in bit (Val) and in percentage (Perc).

FANS MONITOR

Used for displaying the speed of each fan installed in the projector:

PwrSp (ventola PSU)

Head (ventola testa)

NETWORK PARAMS

Allows the "Network" parameters of the projector to be displayed or:

IP address: Internet Protocol address (two projectors must not have the same IP address)

IP mask: 255.0.0.0

Mac address: Media Access Control: the projector's Ethernet Address

MANUAL CONTROL

RESET

Used for resetting the projector.

- 1) Press **OK** to reset the projectors, a confirmation message (Are you sure ?) appears on the display.
- 2) Select YES to starting reset the fixture or NO to keep the current setting and return to the top menu level.

CHANNEL

Used for setting channel levels from the projector control panel.

- 1) Press **OK** - the first channel appears on the display.
- 2) Use the UP **▲** and DOWN **▼** keys to select the required channel:
- 3) Press **OK** and use the UP **▲** and DOWN **▼** keys to select the required DMX level (value between 0 and 255).
- 4) Press LEFT **◀** to return to the top menu level.

TEST MENU

TEST

Allows you to check the proper functioning of effects.

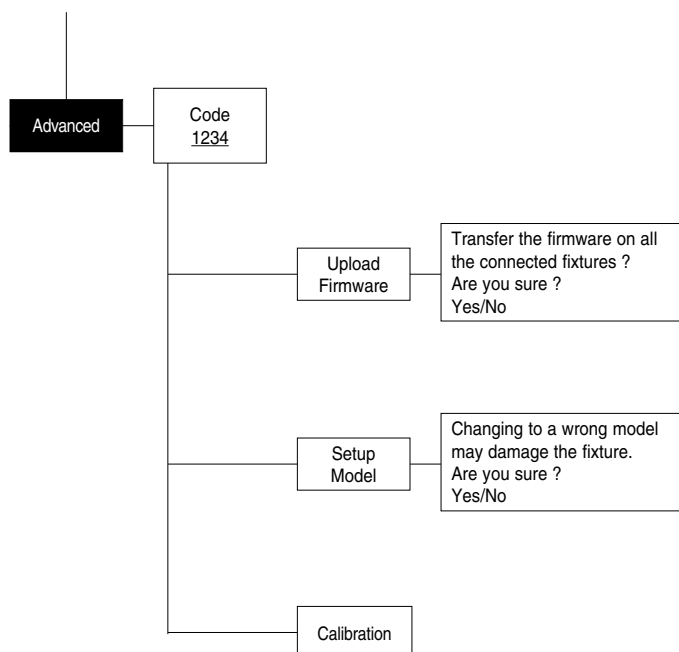
- 1) Press **OK** to return to the top menu level.
- 2) Use the UP **▲** and DOWN **▼** keys to select the required test.
- 3) Press **OK** to confirm the selection or LEFT **◀** to keep current settings.

Test sequence:




Pan - Tilt effects (Pan & Tilt)


Colour effects (CMY / CTO / Colour wheel)

All effects




ADVANCED MENU

To enable the "Advanced Menu" set up the "Access code" (1234) using the UP , DOWN , RIGHT  keys.

Press  - "Menu advanced" appears on the display


UP LOAD FIRMWARE

Allows you to transfer the firmware from 1 fixture to all the connected fixtures.

- 1) Press , a confirmation message appears on the display.
- 2) Select YES to start the firmware loading or NO to keep the current setting and return to the top menu level










SETUP MODEL

Allows you to change the default model of projector.

- 1) Press , a confirmation message appears on the display.
- 2) Select YES to define the model of projector or NO to keep the current setting and return to the top menu level.


CALIBRATION

Allows you to adjust effects from the control panel to obtain perfect uniformity between the projectors.

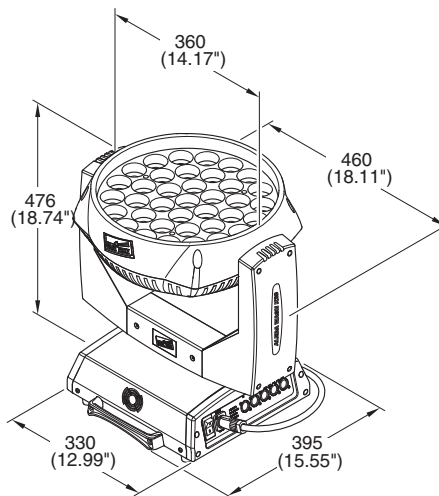
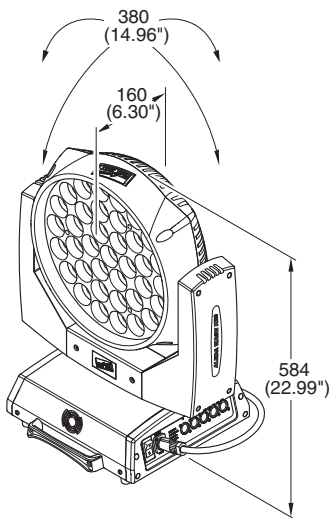
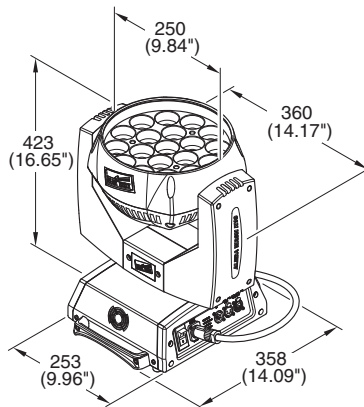
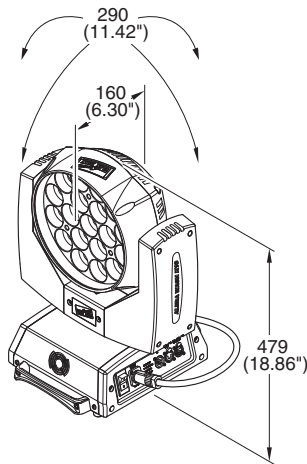
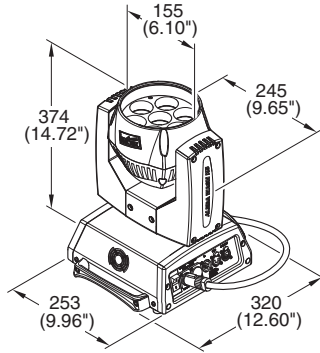
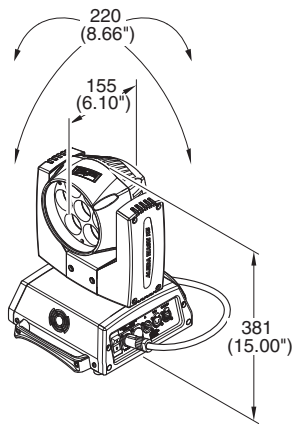
- 1) Press  - "channels" appears on the display.
- 2) Using the UP  and DOWN  keys, select the effect you wish to regulate.
- 3) Press  and use the RIGHT , UP  and DOWN  buttons to make the adjustment by setting a value between 0 and 255.
- 4) Press  to confirm the selection or LEFT  to keep current settings and return to the top level.

FACTORY DEFAULT

Allows you to restore default values of all channels (128).

- 1) Press  - a confirmation message appears on the display (Reset calibration to factory default ?).
- 2) Select YES to reset calibration to factory default or NO to keep the current setting and return to the top menu level.

TECHNICAL INFORMATION



Power supplies available
100-240V 50/60Hz

Input power

- K20 - 750VA
- K10 - 435VA
- K5 - ???VA

Lamp

LED Osram Ostar RGBW - 15W

Motors

17 stepper motors, operating with microsteps, totally micro-processor controlled.

Cooling

- Forced ventilation with axial fans
- Die-casting aluminum, high efficiency

Inputs

DMX 512

Working position

Functioning in any position.

Movable body

- Movement by means of two stepper motors, controlled by microprocessor.
- Automatic repositioning of PAN and TILT after accidental movement not controlled by control unit.
- Travel:
 - PAN = 540°
 - TILT = 252°
- Maximum speeds:
 - PAN = 3.20 (Normal) / 2.90 (Fast)
 - TILT = 1.89 (normal) / 1.75 (Fast)
- Resolution:
 - PAN = 2.11°
 - PAN FINE = 0.008°
 - TILT = 0.98°
 - TILT FINE = 0.004°

IP20 protection rating

- Protected against the entry of solid bodies larger than 12mm (0.47").
- No protection against the entry of liquids.

CE Marking

In conformity with the European Union Low Voltage Directive 2006/95/CE and Electromagnetic compatibility Directive 2004/108/CE.

CAUSE AND SOLUTION OF PROBLEMS

| THE PROJECTOR WILL NOT SWITCH ON | | | | PROBLEMS | |
|----------------------------------|---|---|---|---|--------------------------------------|
| ELECTRONICS NON-OPERATIONAL | | | | | |
| DEFECTIVE PROJECTION | | | | | |
| REDUCED LUMINOSITY | | | | | |
| | | | | POSSIBLE CAUSES | CHECKS AND REMEDIES |
| ● | | | | No mains supply. | Check the power supply voltage. |
| ● | | ● | | LED exhausted or defective. | Replace the LED. (See instructions). |
| | ● | | | Signal transmission cable faulty or disconnected. | Replace the cables. |
| | ● | | | Incorrect addressing. | Check addresses (see instructions). |
| | ● | | | Fault in the electronic circuits. | Call an authorised technician. |
| | | ● | | Lenses or reflector broken | Call an authorised technician. |
| | | ● | ● | Dust or grease deposited. | Clean (see instructions). |

CHANNEL FUNCTION

ALEDA WASH K5

STANDARD

| CHAN- NEL | CHANNEL MODE |
|--------------|--------------|
| 1 | Red |
| 2 | Red fine |
| 3 | Green |
| 4 | Green fine |
| 5 | Blue |
| 6 | Blue fine |
| 7 | White |
| 8 | White fine |
| 9 | CTO |
| 10 | Macro colour |
| 11 | Strobe |
| 12 | Dimmer |
| 13 | Dimmer Fine |
| 14 | Pan |
| 15 | Pan Fine |
| 16 | Tilt |
| 17 | Tilt Fine |
| 18 | Function |
| 19 | Reset |

SHAPES

| CHAN- NEL | CHANNEL MODE |
|--------------|-------------------------------------|
| 1 | Red |
| 2 | Red fine |
| 3 | Green |
| 4 | Green fine |
| 5 | Blue |
| 6 | Blue fine |
| 7 | White |
| 8 | White fine |
| 9 | CTO |
| 10 | Macro colour |
| 11 | Strobe |
| 12 | Dimmer |
| 13 | Dimmer Fine |
| 14 | Pan |
| 15 | Pan Fine |
| 16 | Tilt |
| 17 | Tilt Fine |
| 18 | Function |
| 19 | Reset |
| 20 | Reserved to special shape functions |
| 21 | Reserved to special shape functions |
| 22 | Reserved to special shape functions |
| 23 | Reserved to special shape functions |
| 24 | Reserved to special shape functions |
| 25 | Reserved to special shape functions |
| 26 | Reserved to special shape functions |
| 27 | Reserved to special shape functions |
| 28 | Reserved to special shape functions |
| 29 | Reserved to special shape functions |

EXTENDED

| CHAN- NEL | CHANNEL MODE |
|--------------|---|
| 1 | Red |
| 2 | Red fine |
| 3 | Green |
| 4 | Green fine |
| 5 | Blue |
| 6 | Blue fine |
| 7 | White |
| 8 | White fine |
| 9 | CTO |
| 10 | Macro colour |
| 11 | Strobe |
| 12 | Dimmer |
| 13 | Dimmer Fine |
| 14 | Pan |
| 15 | Pan Fine |
| 16 | Tilt |
| 17 | Tilt Fine |
| 18 | Function |
| 19 | Reset |
| 20 | RED LED 1 (If RED "channel 1" to 0) |
| 21 | GREEN LED 1 (If GREEN "channel 2" to 0) |
| 22 | BLUE LED 1 (If BLUE "channel 3" to 0) |
| 23 | RED LED 2 (If RED "channel 1" to 0) |
| 24 | GREEN LED 2 (If GREEN "channel 2" to 0) |
| 25 | BLUE LED 2 (If BLUE "channel 3" to 0) |
| 26 | RED LED 3 (If RED "channel 1" to 0) |
| 27 | GREEN LED 3 (If GREEN "channel 2" to 0) |
| 28 | BLUE LED 3 (If BLUE "channel 3" to 0) |
| 29 | RED LED 4 (If RED "channel 1" to 0) |
| 30 | GREEN LED 4 (If GREEN "channel 2" to 0) |
| 31 | BLUE LED 4 (If BLUE "channel 3" to 0) |
| 32 | RED LED 5 (If RED "channel 1" to 0) |
| 33 | GREEN LED 5 (If GREEN "channel 2" to 0) |
| 34 | BLUE LED 5 (If BLUE "channel 3" to 0) |
| 35 | RED LED 6 (If RED "channel 1" to 0) |
| 36 | GREEN LED 6 (If GREEN "channel 2" to 0) |
| 37 | BLUE LED 6 (If BLUE "channel 3" to 0) |
| 38 | RED LED 7 (If RED "channel 1" to 0) |
| 39 | GREEN LED 7 (If GREEN "channel 2" to 0) |
| 40 | BLUE LED 7 (If BLUE "channel 3" to 0) |

ALEDA WASH K10

STANDARD

| CHAN- NEL | CHANNEL MODE |
|--------------|--------------|
| 1 | Red |
| 2 | Red fine |
| 3 | Green |
| 4 | Green fine |
| 5 | Blue |
| 6 | Blue fine |
| 7 | White |
| 8 | White fine |
| 9 | CTO |
| 10 | Macro colour |
| 11 | Strobe |
| 12 | Dimmer |
| 13 | Dimmer Fine |
| 14 | Pan |
| 15 | Pan Fine |
| 16 | Tilt |
| 17 | Tilt Fine |
| 18 | Function |
| 19 | Reset |
| 20 | Zoom |

EXTENDED

| CHAN- NEL | CHANNEL MODE | |
|--------------|--------------|-----------------------------|
| 1 | Red | |
| 2 | Red fine | |
| 3 | Green | |
| 4 | Green fine | |
| 5 | Blue | |
| 6 | Blue fine | |
| 7 | White | |
| 8 | White fine | |
| 9 | CTO | |
| 10 | Macro colour | |
| 11 | Strobe | |
| 12 | Dimmer | |
| 13 | Dimmer Fine | |
| 14 | Pan | |
| 15 | Pan Fine | |
| 16 | Tilt | |
| 17 | Tilt Fine | |
| 18 | Function | |
| 19 | Reset | |
| 20 | Zoom | |
| 21 | RED LED 1 | (If RED "channel 1" to 0) |
| 22 | GREEN LED 1 | (If GREEN "channel 2" to 0) |
| 23 | BLUE LED 1 | (If BLUE "channel 3" to 0) |
| 24 | RED LED 2 | (If RED "channel 1" to 0) |
| 25 | GREEN LED 2 | (If GREEN "channel 2" to 0) |
| 26 | BLUE LED 2 | (If BLUE "channel 3" to 0) |
| 27 | RED LED 3 | (If RED "channel 1" to 0) |
| 28 | GREEN LED 3 | (If GREEN "channel 2" to 0) |
| 29 | BLUE LED 3 | (If BLUE "channel 3" to 0) |
| 30 | RED LED 4 | (If RED "channel 1" to 0) |
| 31 | GREEN LED 4 | (If GREEN "channel 2" to 0) |
| 32 | BLUE LED 4 | (If BLUE "channel 3" to 0) |
| 33 | RED LED 5 | (If RED "channel 1" to 0) |
| 34 | GREEN LED 5 | (If GREEN "channel 2" to 0) |
| 35 | BLUE LED 5 | (If BLUE "channel 3" to 0) |
| 36 | RED LED 6 | (If RED "channel 1" to 0) |
| 37 | GREEN LED 6 | (If GREEN "channel 2" to 0) |
| 38 | BLUE LED 6 | (If BLUE "channel 3" to 0) |
| 39 | RED LED 7 | (If RED "channel 1" to 0) |
| 40 | GREEN LED 7 | (If GREEN "channel 2" to 0) |
| 41 | BLUE LED 7 | (If BLUE "channel 3" to 0) |
| 42 | RED LED 8 | (If RED "channel 1" to 0) |
| 43 | GREEN LED 8 | (If GREEN "channel 2" to 0) |
| 44 | BLUE LED 8 | (If BLUE "channel 3" to 0) |
| 45 | RED LED 9 | (If RED "channel 1" to 0) |
| 46 | GREEN LED 9 | (If GREEN "channel 2" to 0) |
| 47 | BLUE LED 9 | (If BLUE "channel 3" to 0) |
| 48 | RED LED 10 | (If RED "channel 1" to 0) |
| 49 | GREEN LED 10 | (If GREEN "channel 2" to 0) |

[illegible]

SHAPES

| CHAN- NEL | CHANNEL MODE |
|--------------|-------------------------------------|
| 1 | Red |
| 2 | Red fine |
| 3 | Green |
| 4 | Green fine |
| 5 | Blue |
| 6 | Blue fine |
| 7 | White |
| 8 | White fine |
| 9 | CTO |
| 10 | Macro colour |
| 11 | Strobe |
| 12 | Dimmer |
| 13 | Dimmer Fine |
| 14 | Pan |
| 15 | Pan Fine |
| 16 | Tilt |
| 17 | Tilt Fine |
| 18 | Function |
| 19 | Reset |
| 20 | Zoom |
| 21 | Reserved to special shape functions |
| 22 | Reserved to special shape functions |
| 23 | Reserved to special shape functions |
| 24 | Reserved to special shape functions |
| 25 | Reserved to special shape functions |
| 26 | Reserved to special shape functions |
| 27 | Reserved to special shape functions |
| 28 | Reserved to special shape functions |
| 29 | Reserved to special shape functions |
| 30 | Reserved to special shape functions |

ALEDA WASH K20

STANDARD

| CHAN- NEL | CHANNEL MODE |
|--------------|--------------|
| 1 | Red |
| 2 | Red fine |
| 3 | Green |
| 4 | Green fine |
| 5 | Blue |
| 6 | Blue fine |
| 7 | White |
| 8 | White fine |
| 9 | CTO |
| 10 | Macro colour |
| 11 | Strobe |
| 12 | Dimmer |
| 13 | Dimmer Fine |
| 14 | Pan |
| 15 | Pan Fine |
| 16 | Tilt |
| 17 | Tilt Fine |
| 18 | Function |
| 19 | Reset |
| 20 | Zoom |

SHAPES

| CHAN- NEL | CHANNEL MODE |
|--------------|-------------------------------------|
| 1 | Red |
| 2 | Red fine |
| 3 | Green |
| 4 | Green fine |
| 5 | Blue |
| 6 | Blue fine |
| 7 | White |
| 8 | White fine |
| 9 | CTO |
| 10 | Macro colour |
| 11 | Strobe |
| 12 | Dimmer |
| 13 | Dimmer Fine |
| 14 | Pan |
| 15 | Pan Fine |
| 16 | Tilt |
| 17 | Tilt Fine |
| 18 | Function |
| 19 | Reset |
| 20 | Zoom |
| 21 | Reserved to special shape functions |
| 22 | Reserved to special shape functions |
| 23 | Reserved to special shape functions |
| 24 | Reserved to special shape functions |
| 25 | Reserved to special shape functions |
| 26 | Reserved to special shape functions |
| 27 | Reserved to special shape functions |
| 28 | Reserved to special shape functions |
| 29 | Reserved to special shape functions |
| 30 | Reserved to special shape functions |

EXTENDED

| CHAN- NEL | CHANNEL MODE |
|--------------|--|
| 1 | Red |
| 2 | Red fine |
| 3 | Green |
| 4 | Green fine |
| 5 | Blue |
| 6 | Blue fine |
| 7 | White |
| 8 | White fine |
| 9 | CTO |
| 10 | Macro colour |
| 11 | Strobe |
| 12 | Dimmer |
| 13 | Dimmer Fine |
| 14 | Pan |
| 15 | Pan Fine |
| 16 | Tilt |
| 17 | Tilt Fine |
| 18 | Function |
| 19 | Reset |
| 20 | Zoom |
| 21 | RED LED 1 (If RED "channel 1" to 0) |
| 22 | GREEN LED 1 (If GREEN "channel 2" to 0) |
| 23 | BLUE LED 1 (If BLUE "channel 3" to 0) |
| 24 | RED LED 2 (If RED "channel 1" to 0) |
| 25 | GREEN LED 2 (If GREEN "channel 2" to 0) |
| 26 | BLUE LED 2 (If BLUE "channel 3" to 0) |
| 27 | RED LED 3 (If RED "channel 1" to 0) |
| 28 | GREEN LED 3 (If GREEN "channel 2" to 0) |
| 29 | BLUE LED 3 (If BLUE "channel 3" to 0) |
| 30 | RED LED 4 (If RED "channel 1" to 0) |
| 31 | GREEN LED 4 (If GREEN "channel 2" to 0) |
| 32 | BLUE LED 4 (If BLUE "channel 3" to 0) |
| 33 | RED LED 5 (If RED "channel 1" to 0) |
| 34 | GREEN LED 5 (If GREEN "channel 2" to 0) |
| 35 | BLUE LED 5 (If BLUE "channel 3" to 0) |
| 36 | RED LED 6 (If RED "channel 1" to 0) |
| 37 | GREEN LED 6 (If GREEN "channel 2" to 0) |
| 38 | BLUE LED 6 (If BLUE "channel 3" to 0) |
| 39 | RED LED 7 (If RED "channel 1" to 0) |
| 40 | GREEN LED 7 (If GREEN "channel 2" to 0) |
| 41 | BLUE LED 7 (If BLUE "channel 3" to 0) |
| 42 | RED LED 8 (If RED "channel 1" to 0) |
| 43 | GREEN LED 8 (If GREEN "channel 2" to 0) |
| 44 | BLUE LED 8 (If BLUE "channel 3" to 0) |
| 45 | RED LED 9 (If RED "channel 1" to 0) |
| 46 | GREEN LED 9 (If GREEN "channel 2" to 0) |
| 47 | BLUE LED 9 (If BLUE "channel 3" to 0) |
| 48 | RED LED 10 (If RED "channel 1" to 0) |
| 49 | GREEN LED 10 (If GREEN "channel 2" to 0) |
| 50 | BLUE LED 10 (If BLUE "channel 3" to 0) |
| 51 | RED LED 11 (If RED "channel 1" to 0) |
| 52 | GREEN LED 11 (If GREEN "channel 2" to 0) |
| 53 | BLUE LED 11 (If BLUE "channel 3" to 0) |
| 54 | RED LED 12 (If RED "channel 1" to 0) |
| 55 | GREEN LED 12 (If GREEN "channel 2" to 0) |
| 56 | BLUE LED 12 (If BLUE "channel 3" to 0) |
| 57 | RED LED 13 (If RED "channel 1" to 0) |
| 58 | GREEN LED 13 (If GREEN "channel 2" to 0) |
| 59 | BLUE LED 13 (If BLUE "channel 3" to 0) |
| 60 | RED LED 14 (If RED "channel 1" to 0) |
| 61 | GREEN LED 14 (If GREEN "channel 2" to 0) |
| 62 | BLUE LED 14 (If BLUE "channel 3" to 0) |
| 63 | RED LED 15 (If RED "channel 1" to 0) |
| 64 | GREEN LED 15 (If GREEN "channel 2" to 0) |
| 65 | BLUE LED 15 (If BLUE "channel 3" to 0) |
| 66 | RED LED 16 (If RED "channel 1" to 0) |

| CHAN- NEL | CHANNEL MODE |
|--------------|--|
| 67 | GREEN LED 16 (If GREEN "channel 2" to 0) |
| 68 | BLUE LED 16 (If BLUE "channel 3" to 0) |
| 69 | RED LED 17 (If RED "channel 1" to 0) |
| 70 | GREEN LED 17 (If GREEN "channel 2" to 0) |
| 71 | BLUE LED 17 (If BLUE "channel 3" to 0) |
| 72 | RED LED 18 (If RED "channel 1" to 0) |
| 73 | GREEN LED 18 (If GREEN "channel 2" to 0) |
| 74 | BLUE LED 18 (If BLUE "channel 3" to 0) |
| 75 | RED LED 19 (If RED "channel 1" to 0) |
| 76 | GREEN LED 19 (If GREEN "channel 2" to 0) |
| 77 | BLUE LED 19 (If BLUE "channel 3" to 0) |
| 78 | RED LED 20 (If RED "channel 1" to 0) |
| 79 | GREEN LED 20 (If GREEN "channel 2" to 0) |
| 80 | BLUE LED 20 (If BLUE "channel 3" to 0) |
| 81 | RED LED 21 (If RED "channel 1" to 0) |
| 82 | GREEN LED 21 (If GREEN "channel 2" to 0) |
| 83 | BLUE LED 21 (If BLUE "channel 3" to 0) |
| 84 | RED LED 22 (If RED "channel 1" to 0) |
| 85 | GREEN LED 22 (If GREEN "channel 2" to 0) |
| 86 | BLUE LED 22 (If BLUE "channel 3" to 0) |
| 87 | RED LED 23 (If RED "channel 1" to 0) |
| 88 | GREEN LED 23 (If GREEN "channel 2" to 0) |
| 89 | BLUE LED 23 (If BLUE "channel 3" to 0) |
| 90 | RED LED 24 (If RED "channel 1" to 0) |
| 91 | GREEN LED 24 (If GREEN "channel 2" to 0) |
| 92 | BLUE LED 24 (If BLUE "channel 3" to 0) |
| 93 | RED LED 25 (If RED "channel 1" to 0) |
| 94 | GREEN LED 25 (If GREEN "channel 2" to 0) |
| 95 | BLUE LED 25 (If BLUE "channel 3" to 0) |
| 96 | RED LED 26 (If RED "channel 1" to 0) |
| 97 | GREEN LED 26 (If GREEN "channel 2" to 0) |
| 98 | BLUE LED 26 (If BLUE "channel 3" to 0) |
| 99 | RED LED 27 (If RED "channel 1" to 0) |
| 100 | GREEN LED 27 (If GREEN "channel 2" to 0) |
| 101 | BLUE LED 27 (If BLUE "channel 3" to 0) |
| 102 | RED LED 28 (If RED "channel 1" to 0) |
| 103 | GREEN LED 28 (If GREEN "channel 2" to 0) |
| 104 | BLUE LED 28 (If BLUE "channel 3" to 0) |
| 105 | RED LED 29 (If RED "channel 1" to 0) |
| 106 | GREEN LED 29 (If GREEN "channel 2" to 0) |
| 107 | BLUE LED 29 (If BLUE "channel 3" to 0) |
| 108 | RED LED 30 (If RED "channel 1" to 0) |
| 109 | GREEN LED 30 (If GREEN "channel 2" to 0) |
| 110 | BLUE LED 30 (If BLUE "channel 3" to 0) |
| 111 | RED LED 31 (If RED "channel 1" to 0) |
| 112 | GREEN LED 31 (If GREEN "channel 2" to 0) |
| 113 | BLUE LED 31 (If BLUE "channel 3" to 0) |
| 114 | RED LED 32 (If RED "channel 1" to 0) |
| 115 | GREEN LED 32 (If GREEN "channel 2" to 0) |
| 116 | BLUE LED 32 (If BLUE "channel 3" to 0) |
| 117 | RED LED 33 (If RED "channel 1" to 0) |
| 118 | GREEN LED 33 (If GREEN "channel 2" to 0) |
| 119 | BLUE LED 33 (If BLUE "channel 3" to 0) |
| 120 | RED LED 34 (If RED "channel 1" to 0) |
| 121 | GREEN LED 34 (If GREEN "channel 2" to 0) |
| 122 | BLUE LED 34 (If BLUE "channel 3" to 0) |
| 123 | RED LED 35 (If RED "channel 1" to 0) |
| 124 | GREEN LED 35 (If GREEN "channel 2" to 0) |
| 125 | BLUE LED 35 (If BLUE "channel 3" to 0) |
| 126 | RED LED 36 (If RED "channel 1" to 0) |
| 127 | GREEN LED 36 (If GREEN "channel 2" to 0) |
| 128 | BLUE LED 36 (If BLUE "channel 3" to 0) |
| 129 | RED LED 37 (If RED "channel 1" to 0) |
| 130 | GREEN LED 37 (If GREEN "channel 2" to 0) |
| 131 | BLUE LED 37 (If BLUE "channel 3" to 0) |

NOTE: On conclusion of resetting in case of absence of DMX signal, Pan & Tilt move to the "Home" position (Pan 50% - Tilt 50%) all the others channels stay at 0%.

• RED – GREEN - BLUE - WHITE



| BIT | % | EFFECT |
|-----|-----|-----------------|
| 255 | 100 | COLOUR EXCLUDED |
| 0 | 0.0 | COLOUR INSERTED |

• STOP / STROBE



| BIT | % | EFFECT |
|-----------|-------------|----------------------------|
| 252 - 255 | 98.7 - 100 | OPEN |
| 239 - 251 | 93.7 - 98.2 | RANDOM FAST STROBE |
| 226 - 238 | 88.7 - 93.2 | RANDOM MEDIUM STROBE |
| 213 - 225 | 83.7 - 88.2 | RANDOM SLOW STROBE |
| 208 - 212 | 81.7 - 83.2 | OPEN |
| 207 | 81.2 | FAST PULSATION |
| 108 | 42.5 | SLOW PULSATION |
| 104 - 107 | 41.0 - 42.0 | OPEN |
| 103 | 40.5 | FAST STROBE (12 flash/sec) |
| 4 | 1.7 | SLOW STROBE (1 flash/sec) |
| 0 - 3 | 0.0 - 1.2 | CLOSED |

• RED FINE – GREEN FINE – BLUE FINE – WHITE FINE



| BIT | % | EFFECT |
|-----|-----|--------|
| 255 | 100 | |
| 0 | 0.0 | |

• DIMMER



| BIT | % | EFFECT |
|-----|-----|------------|
| 255 | 100 | FULL LIGHT |
| 0 | 0.0 | NO LIGHT |

• C.T.O.



| BIT | % | EFFECT |
|-----|-----|-----------------|
| 255 | 100 | COLOUR EXCLUDED |
| 0 | 0.0 | COLOUR INSERTED |

• DIMMER FINE

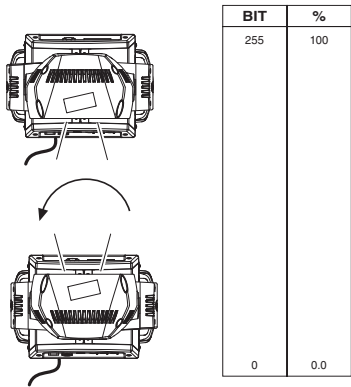


| BIT | % | EFFECT |
|-----|-----|--------|
| 255 | 100 | |
| 0 | 0.0 | |

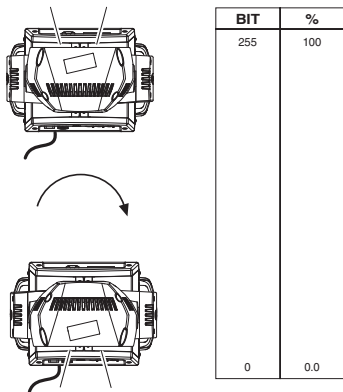
• MACRO COLOUR

• PAN

Operation with option InvertPan \diamond Off
(Tilt conventionally represented at 14% and option Invert Tilt \diamond Off)

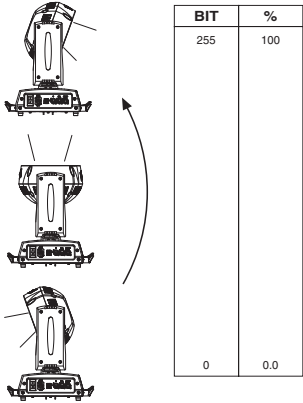


Operation with option InvertPan \diamond On
(Tilt conventionally represented at 14% and option Invert Tilt \diamond Off)

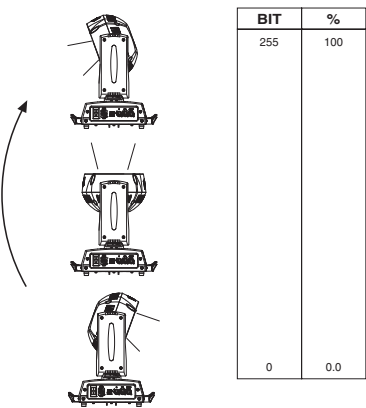


• TILT

Operation with option InvertPan \diamond Off
(Tilt conventionally represented at 14% and option Invert Tilt \diamond Off)

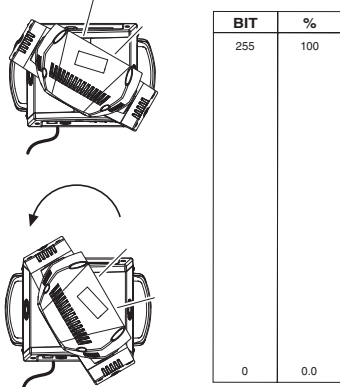


Operation with option InvertPan \diamond On
(Tilt conventionally represented at 14% and option Invert Tilt \diamond Off)

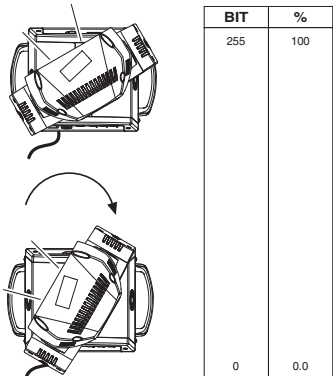


• PAN FINE

Operation with option InvertPan \diamond Off
(Tilt conventionally represented at 14% and option Invert Tilt \diamond Off)

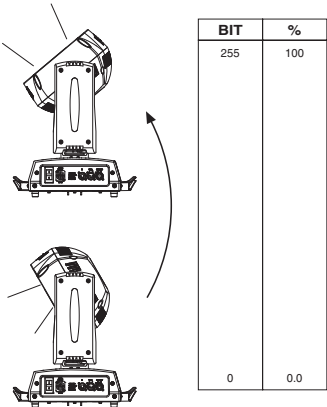


Operation with option InvertPan \diamond On
(Tilt conventionally represented at 14% and option Invert Tilt \diamond Off)

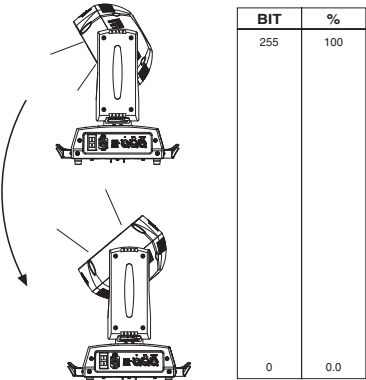


• TILT FINE

Operation with option InvertPan \diamond Off
(Tilt conventionally represented at 14% and option Invert Tilt \diamond Off)



Operation with option InvertPan \diamond On
(Tilt conventionally represented at 14% and option Invert Tilt \diamond Off)



• FUNCTION

| BIT | % | EFFECT |
|-------|---------|--------------|
| 255 | 100 | UNUSED RANGE |
| | | |
| 52 | 20.5 | |
| 51 | 20.0 | |
| 39 | 15.0 | |
| 26 | 10.0 | |
| 13 | 5.0 | |
| 0-12 | 0.0-4.7 | |

The functions are actived passing through the "unused range" and staying 5 seconds in necessary level

• RESET

| BIT | % | EFFECT |
|-------|-------|--|
| 255 | 100 | COMPLETE RESET |
| | | Complete reset is activated passing through the unused range and staying 5 seconds in complete reset levels. |
| 128 | 50.0 | COMPLETE RESET |
| 127 | 49.7 | PAN / TILT RESET |
| | | Pan / Tilt reset is activated passing through the unused range and staying 5 seconds in Pan / Tilt reset levels. |
| 77 | 30.0 | PAN / TILT RESET |
| 76 | 29.7 | ZOOM RESET |
| | | Effects reset is activated passing through the unused range and staying 5 seconds in Effects reset levels. |
| 26 | 10.0 | ZOOM RESET |
| 25 | 9.7 | UNUSED RANGE |
| 0 | 0.0 | |

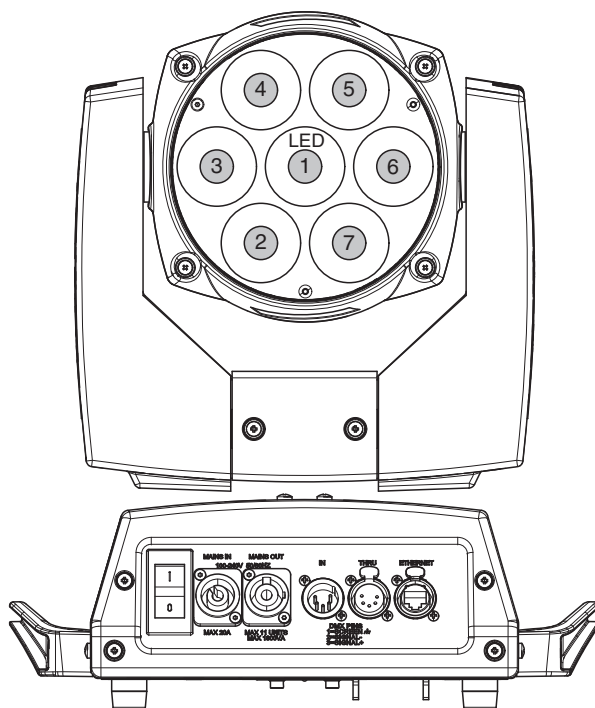
• ZOOM



| BIT | % | EFFECT |
|-------|-------|-------------|
| 255 | 100 | WIDE BEAM |
| | | |
| 0 | 0.0 | NARROW BEAM |

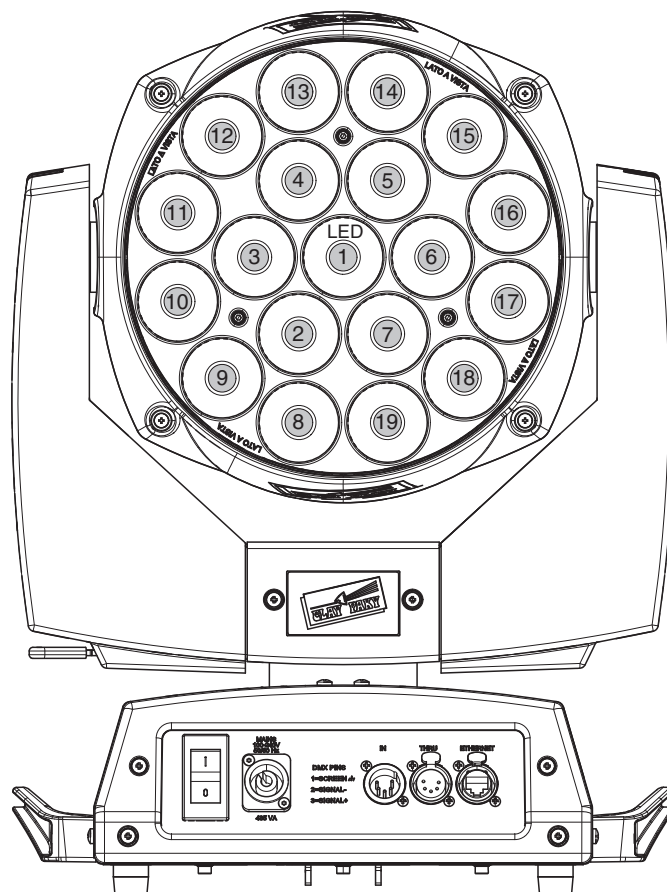
ALEDA WASH K5

TILT: channel 16 at 80%



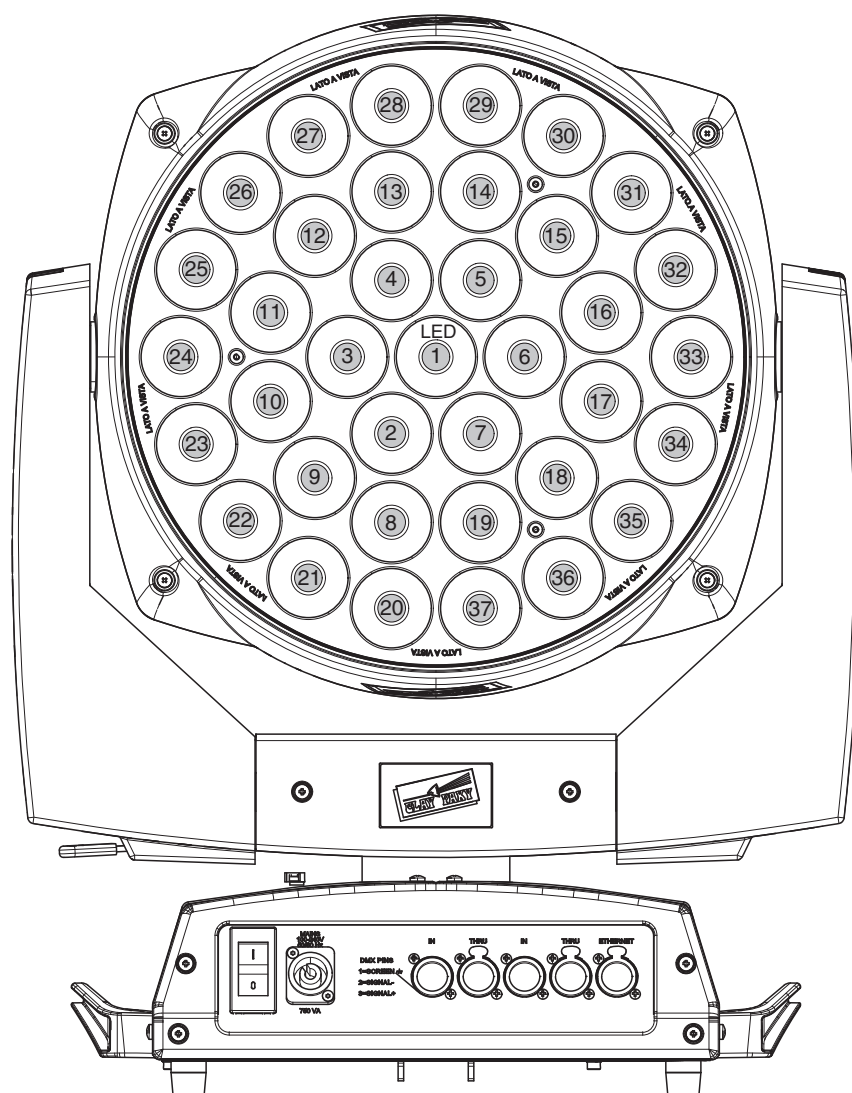
ALEDA WASH K10

TILT: channel 16 at 80%



ALEDA WASH K20

TILT: channel 16 at 80%



TIMING CHANNELS

| | Timing Channel | Channel function |
|--|-----------------|-------------------------------------|
| | Pan - Tilt time | Pan - Tilt - (Pan fine - Tilt fine) |
| | Colour time | CMY - CTO - Colour wheel |
| | Beam time | Dimmer - Zoom |

TIME TABLE

| BIT | Seconds | BIT | Seconds | BIT | Seconds | BIT | Seconds | BIT | Seconds | BIT | Seconds |
|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|------|------------|
| 0 | Full | 43 | 8.6 | 86 | | 129 | | 172 | | 216 | |
| 1 | 0.2 | 44 | 8.8 | 87 | 24 | 130 | 41 | 173 | 58 | 217 | 170 |
| 2 | 0.4 | 45 | 9 | 88 | | 131 | | 174 | | 218 | |
| 3 | 0.6 | 46 | 9.2 | 89 | 25 | 132 | 42 | 175 | 59 | 219 | 180 |
| 4 | 0.8 | 47 | 9.4 | 90 | | 133 | | 176 | | 220 | |
| 5 | 1 | 48 | 9.6 | 91 | 26 | 134 | 43 | 177 | 60 | 221 | 190 |
| 6 | 1.2 | 49 | 9.8 | 92 | | 135 | | 178 | | 222 | |
| 7 | 1.4 | 50 | 10 | 93 | 27 | 136 | 44 | 179 | 65 | 223 | 200 |
| 8 | 1.6 | 51 | 10.2 | 94 | | 137 | | 180 | | 224 | |
| 9 | 1.8 | 52 | 10.4 | 95 | 28 | 138 | 45 | 181 | 70 | 225 | 210 |
| 10 | 2 | 53 | 10.6 | 96 | | 139 | | 182 | | 226 | |
| 11 | 2.2 | 54 | 11 | 97 | 29 | 140 | 46 | 183 | 75 | 227 | 220 |
| 12 | 2.4 | 55 | | 98 | | 141 | | 184 | | 228 | |
| 13 | 2.6 | 56 | 12 | 99 | 30 | 142 | 47 | 185 | 80 | 229 | 230 |
| 14 | 2.8 | 57 | | 100 | | 143 | | 186 | | 230 | |
| 15 | 3 | 58 | 13 | 101 | 31 | 144 | 48 | 187 | 85 | 231 | 240 |
| 16 | 3.2 | 59 | | 102 | | 145 | | 188 | | 232 | |
| 17 | 3.4 | 60 | 14 | 103 | 32 | 146 | 49 | 189 | 90 | 233 | 250 |
| 18 | 3.6 | 61 | | 104 | | 147 | | 190 | | 234 | |
| 19 | 3.8 | 62 | 15 | 105 | 33 | 148 | 50 | 191 | 95 | 235 | 260 |
| 20 | 4 | 63 | | 106 | | 149 | | 192 | | 236 | |
| 21 | 4.2 | 64 | 16 | 107 | 34 | 150 | 51 | 193 | 100 | 237 | 270 |
| 22 | 4.4 | 65 | | 108 | | 151 | | 194 | | 238 | |
| 23 | 4.6 | 66 | 17 | 109 | 35 | 152 | 52 | 195 | 110 | 239 | 280 |
| 24 | 4.8 | 67 | | 110 | | 153 | | 196 | | 240 | |
| 25 | 5 | 68 | 18 | 111 | 36 | 154 | 53 | 197 | 120 | 241 | 290 |
| 26 | 5.2 | 69 | | 112 | | 155 | | 198 | | 242 | |
| 27 | 5.4 | 70 | 19 | 113 | 37 | 156 | 54 | 199 | 130 | 243 | 300 |
| 28 | 5.6 | 71 | | 114 | | 157 | | 200 | | 244 | |
| 29 | 5.8 | 72 | 20 | 115 | 38 | 158 | 55 | 201 | 140 | 245 | 310 |
| 30 | 6 | 73 | | 116 | | 159 | | 202 | | 246 | |
| 31 | 6.2 | 74 | 21 | 117 | 39 | 160 | 56 | 203 | 150 | 247 | 310 |
| 32 | 6.4 | 75 | | 118 | | 161 | | 204 | | 248 | |
| 33 | 6.6 | 76 | 22 | 119 | 40 | 162 | 57 | 205 | | 249 | |
| 34 | 6.8 | 77 | | 120 | | 163 | | 206 | | 250 | |
| 35 | 7 | 78 | 23 | 121 | | 164 | | 207 | | 251 | |
| 36 | 7.2 | 79 | | 122 | | 165 | | 208 | | 252 | |
| 37 | 7.4 | 80 | | 123 | | 166 | | 209 | | 253 | |
| 38 | 7.6 | 81 | | 124 | | 167 | | 210 | | 254 | |
| 39 | 7.8 | 82 | | 125 | | 168 | | 211 | | 255 | Follow cue |
| 40 | 8 | 83 | | 126 | | 169 | | 212 | | Data | |
| 41 | 8.2 | 84 | | 127 | | 170 | | 213 | | | |
| 42 | 8.4 | 85 | | 128 | | 171 | | 214 | | | |
| | | | | | | | | 215 | | | |

